Why Genetically Altered Food Won't Conquer Hunger

By Peter Rosset

OAKLAND Calif. the debate over genetically n the debate over geneuicany altered foods, proponents like Senator Richard Luger, the Indiana Republican, argue that such products will be essential if we are to feed the

But this claim rests on two persistent misconceptions about hun-ger: first, that people are hungry because of high population density, and second, that genetic engineering is the best or only way to meet our

future needs.

In fact, there is no relationship between the prevalence of hunger in a given country and its population. For every densely populated and

Peter Rosset is director of the Institute for Food and Development Poli-cy and co-author of "World Hunger: Twelve Myths." hungry nation like Bangladesh, there is a sparsely populated and hungry nation like Brazil. The world today produces more food per inhabitant than ever before.

tood per inhabitant than ever before. Enough is available to provide 4.3 pounds to every person every day: two and a half pounds of grain, beans and nuts, about a pound of meat, milk and eggs, and another of fruits and vegetables — more than anyone could ever eat.

The real problems are poverty and inequality. Too many people are too poor to buy the food that is available or lack land on which to

available or lack land on which to grow it themselves.

The second misconception is that genetic engineering is the best way to boost food production. There are two principal technologies on the market. Monsanto makes "Roundup Ready" seeds, which are engineered to withstand its herbicide, Roundup. These seeds — usually soybeans, canola or cotton — allow farmers to apply the herbicide widely.

Monsanto and several other com-

To solve a problem, first define it properly.

panies also produce "Bt" seeds usually corn, potatoes and cotton which are engineered so that each plant produces its own insecticide. Some researchers have shown

that none of the genetically engi-neered seeds significantly increase the yield of crops. Indeed, in more than 8,200 field trials, the Roundup Ready seeds produced fewer bushels of soybeans than similar natural varieties, according to a study by Dr. Charles Benbrook, the former director of the Board on Agriculture at the National Academy of Sci-

Far from being a solution to the

world's hunger problem, the rapid introduction of genetically engineered crops may actually threaten agriculture and food security.

First, widespread adoption of herbicide-resistant seeds may lead to greater use of chemicals that kill weeds. Yet, many noncrop plants are used by small farmers in the third world as supplemental food sources and as animal feed. In the United-States, the Psis and Wildlife Service has found that Roundup already threatens 74 endancered plant species.

species.

Biological pollution from genetically engineered organisms may be another problem. Monsanto is poised to acquire the rights to a genetic engineering technique that renders a crop's seeds sterile, insuring that a crop's seeds serile, insuring that farmers are dependent on Monsanto for new seed every year. Farming in the third world could he crippled if these genes contaminate other local crops that the poor depend on. And such genes could unintentionally sterilize other plants, according to a

study by Martha Crouch, an associ-ate professor of biology at Indiana University. Balf the world's farmers rely on their own saved seed for each year's harvest.

A true solution to the problem of hunger depends on attacking poverty and inequality among both producers and consumers of food. A food system increasingly dependent on genetically altered seeds takes us in the wrong direction.

Note to Readers

The Op-Ed page welcomes Into Op-La page welcomes unsolicited manuscripts. Be-cause of the volume of submissions, however, we regret that we cannot acknowledge an article or return it. If manuscripts are accepted for publication, authors will be notified within two weeks. For further infor-mation, call (212) 556-1831.

00P-1211

00P-12

C 11本年45